

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P950009

Luminaire Tested: **GALN-SB4C-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22835 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

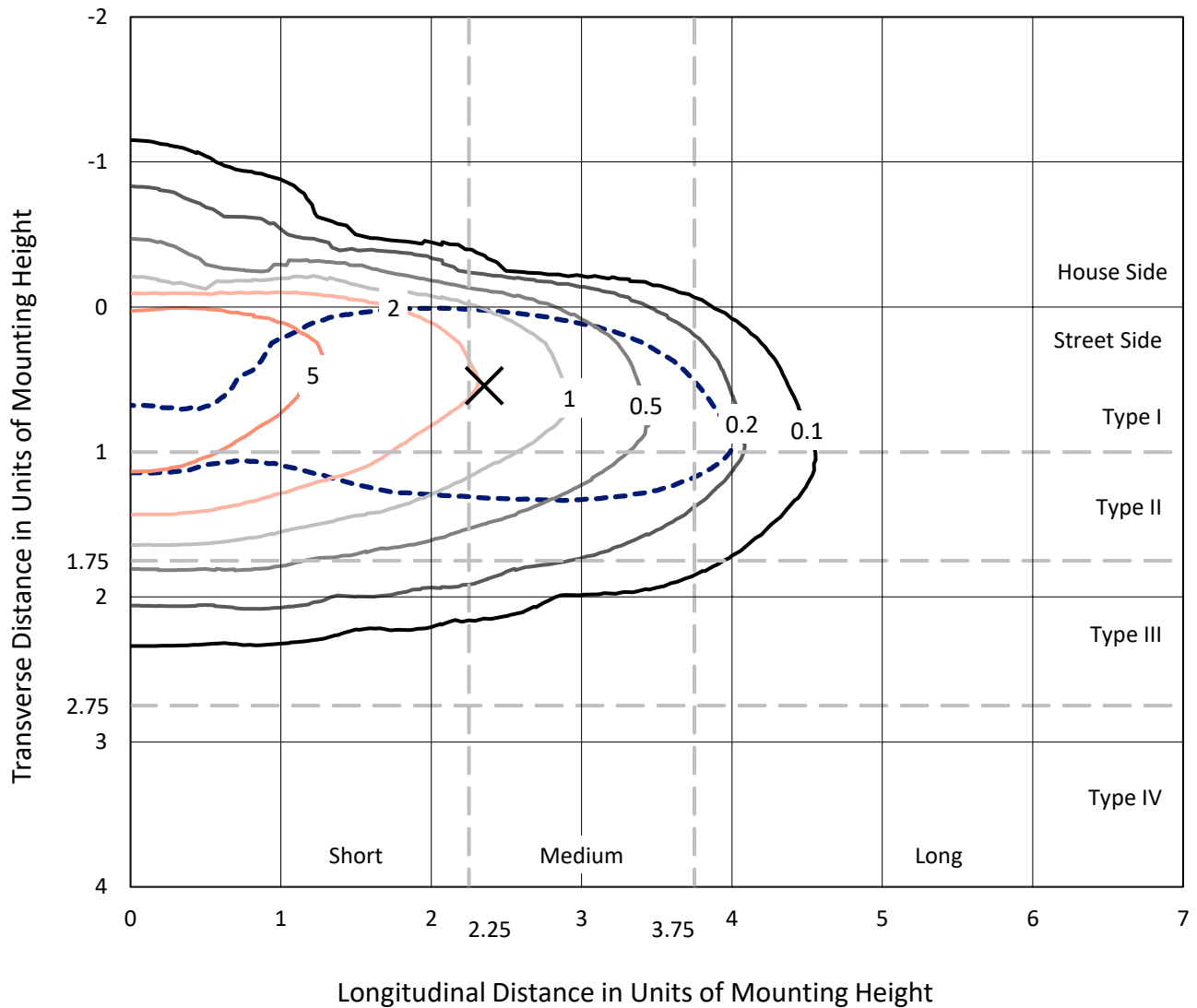
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

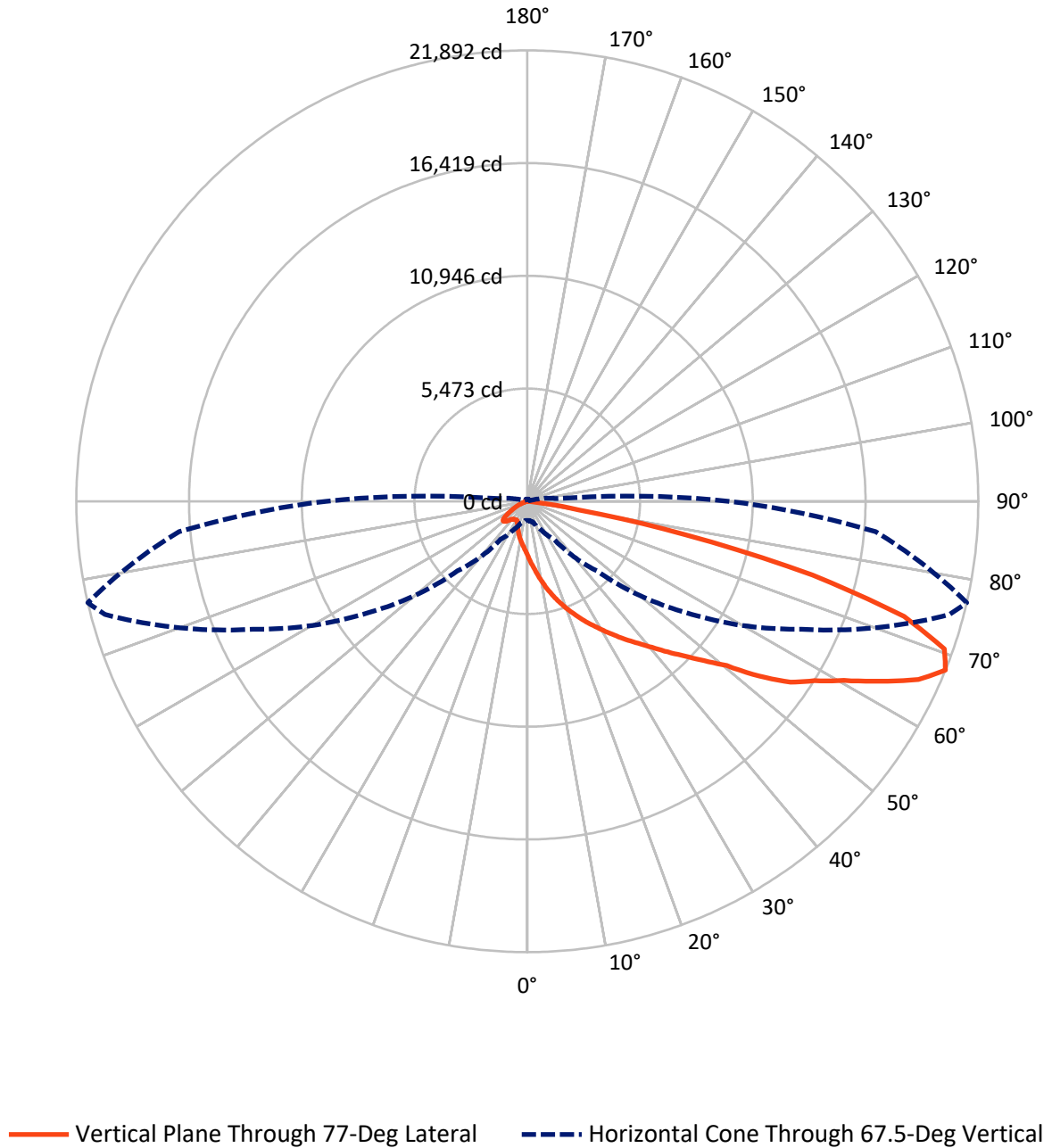
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.0	0.0	1680.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21155.0	0.0	21155.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	22835.0	0.0	22835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	1.2
10°-20°	941.2	4.1
20°-30°	1816.2	8.0
30°-40°	3153.0	13.8
40°-50°	4578.0	20.0
50°-60°	5257.3	23.0
60°-70°	4564.3	20.0
70°-80°	2149.8	9.4
80°-90°	106.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22835.0	100.0
0°-180°	22835.0	100.0

Coefficient of Utilization



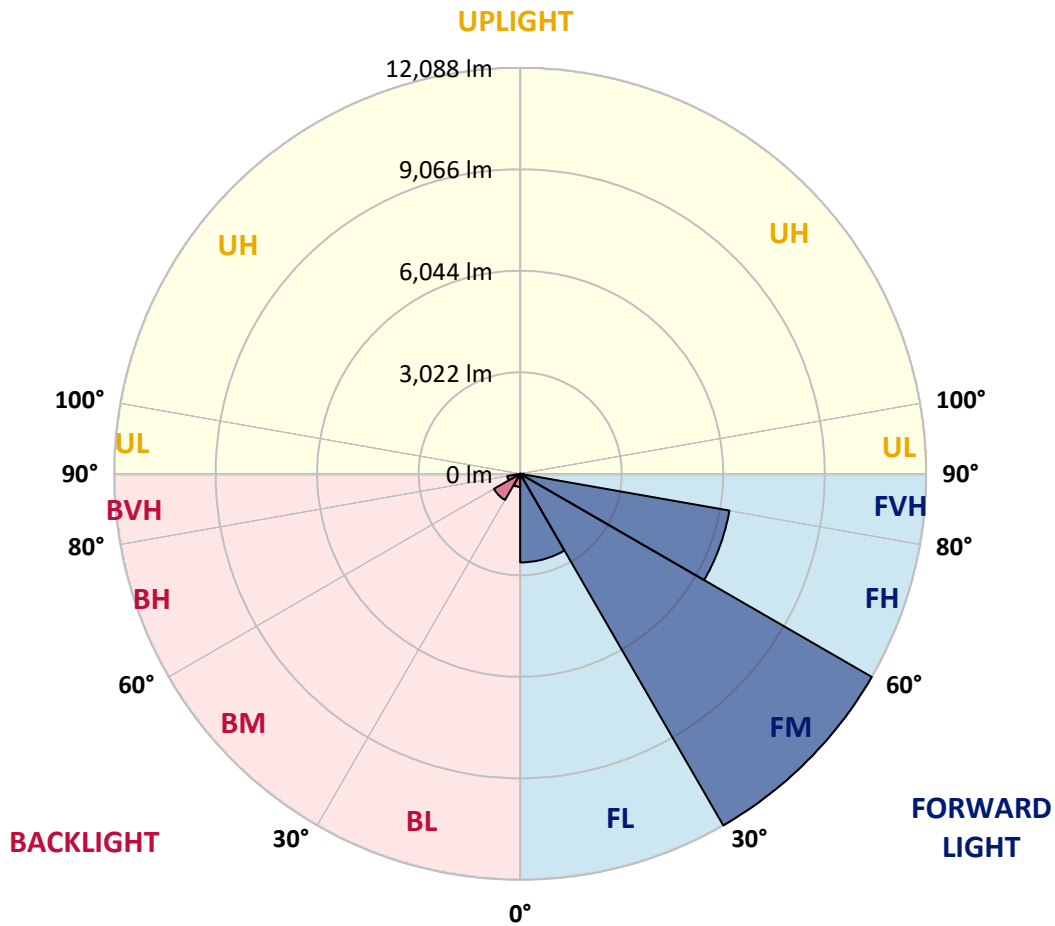
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2637.2	11.5			
FM (30°-60°)	12088.2	52.9			
FH (60°-80°)	6325.2	27.7			G3/7500
FVH (80°-90°)	104.4	0.5			G2/225
BL (0°-30°)	388.9	1.7	B1/500		
BM (30°-60°)	900.2	3.9	B1/1000		
BH (60°-80°)	388.9	1.7	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2
2.5°	3645.7	3668.3	3635.7	3573.3	3479.8	3418.8	3269.9	3129.5	2973.5	2923.9
5°	4444.0	4463.8	4427.0	4358.9	4234.1	4115.0	3919.3	3625.8	3320.9	3223.1
7.5°	5035.3	5046.6	5032.5	4970.1	4851.0	4716.2	4497.9	4150.5	3698.1	3590.4
10°	5460.7	5497.6	5493.3	5469.2	5389.8	5280.6	5048.1	4652.4	4120.7	3981.7
12.5°	5742.9	5784.0	5808.1	5862.0	5857.7	5788.2	5584.1	5165.7	4541.8	4378.8
15°	5825.1	5869.1	5961.2	6086.0	6196.6	6232.1	6088.9	5669.1	5005.5	4797.1
17.5°	5778.3	5846.4	5957.0	6154.1	6396.6	6556.8	6541.2	6155.5	5426.7	5188.4
20°	5881.8	5947.1	6033.6	6199.5	6481.6	6772.3	6888.6	6620.6	5845.0	5595.4
22.5°	6454.7	6443.4	6451.9	6478.8	6647.5	6935.4	7175.0	7043.2	6259.0	6003.8
25°	7362.2	7311.2	7224.7	7078.6	7036.1	7175.0	7424.6	7417.5	6695.8	6422.1
27.5°	8403.0	8394.5	8191.7	7840.1	7641.6	7587.7	7706.8	7781.9	7128.2	6836.1
30°	9399.9	9422.6	9148.9	8757.5	8393.1	8181.8	8074.0	8127.9	7567.8	7282.8
32.5°	10267.7	10291.8	9994.0	9536.0	9085.1	8829.8	8603.0	8469.7	8047.1	7736.6
35°	11000.8	11024.9	10683.2	10176.9	9696.2	9465.1	9208.4	8844.0	8529.2	8240.0
37.5°	11655.9	11648.8	11190.8	10680.3	10208.1	10025.2	9890.5	9304.9	9025.5	8746.2
40°	12043.0	12072.8	11681.4	11118.5	10660.5	10527.2	10518.7	9876.3	9598.4	9327.6
42.5°	12156.4	12208.9	11925.3	11463.0	11047.6	10902.9	11125.6	10494.6	10264.8	10001.1
45°	11952.3	12003.3	11874.3	11553.8	11311.3	11217.7	11647.4	11135.5	10976.7	10715.8
47.5°	11356.7	11420.5	11451.7	11383.6	11380.8	11475.8	12115.3	11810.5	11821.8	11555.2
50°	10203.9	10311.6	10598.1	10839.1	11212.1	11680.0	12570.5	12542.1	12774.7	12545.0
52.5°	8108.1	8261.2	9248.1	9907.5	10745.5	11641.7	13071.1	13716.2	14446.5	14110.4
55°	6515.7	6515.7	7318.3	8551.9	9835.2	11389.3	13289.4	14479.1	15585.2	15505.7
57.5°	5311.8	5375.6	5887.5	6977.9	8517.9	10788.1	13424.1	14958.4	16502.6	16444.5
60°	3278.4	3415.9	4383.0	5459.3	7019.1	9717.5	13339.1	15443.4	17615.7	17662.5
62.5°	1846.2	1897.3	2328.3	3927.8	5457.9	8278.2	12688.2	15714.2	19039.4	19237.9
65°	1274.8	1300.3	1466.2	2444.6	3783.2	6590.8	11416.3	15545.4	20465.9	20867.2
67.5°	925.9	938.7	1042.2	1493.1	2244.7	4778.6	9422.6	14694.7	21221.7	21892.4
70°	711.8	720.3	795.5	981.3	1325.8	2949.4	6843.2	13003.0	20674.3	21475.5
72.5°	578.5	587.0	645.2	726.0	879.2	1744.1	4147.6	10559.8	18258.1	19123.0
75°	487.8	499.1	551.6	604.1	689.1	1120.2	1945.5	7353.7	13730.4	14297.6
77.5°	270.8	249.6	448.1	500.6	581.4	709.0	910.4	4327.7	7689.8	7847.2
80°	168.7	174.4	355.9	402.7	446.7	357.3	416.9	1666.1	2665.8	2532.5
82.5°	9.9	22.7	273.7	290.7	306.3	153.1	157.4	565.8	642.4	589.9
85°	0.0	0.0	124.8	100.7	106.3	44.0	45.4	131.9	86.5	93.6
87.5°	0.0	0.0	0.0	2.8	0.0	4.3	8.5	11.3	4.3	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2633.2	0°	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2	2633.2
2767.9	2.5°	2668.7	2569.4	2368.0	2170.9	2010.7	1861.8	1755.5	1654.8	1603.7	1600.9
2946.6	5°	2749.5	2541.0	2138.3	1782.4	1496.0	1266.3	1117.4	1011.0	957.1	938.7
3166.4	7.5°	2862.9	2549.5	1937.0	1442.1	1104.6	907.5	822.4	788.4	777.1	764.3
3414.5	10°	3006.1	2569.4	1756.9	1161.3	870.6	771.4	737.4	723.2	714.7	706.2
3693.9	12.5°	3166.4	2587.8	1578.2	964.2	765.7	714.7	690.6	673.5	662.2	652.3
3980.3	15°	3322.4	2599.2	1392.5	826.7	711.8	670.7	645.2	626.8	611.2	599.8
4261.1	17.5°	3476.9	2614.8	1218.1	744.4	667.9	626.8	601.2	578.5	565.8	553.0
4556.0	20°	3648.5	2611.9	1053.6	686.3	623.9	582.8	555.9	534.6	521.8	507.6
4868.0	22.5°	3807.3	2597.8	908.9	636.7	578.5	538.8	509.1	487.8	475.0	463.7
5187.0	25°	3990.2	2586.4	788.4	591.3	536.0	496.3	463.7	443.8	429.7	419.7
5507.5	27.5°	4166.1	2569.4	700.5	550.2	494.9	456.6	425.4	402.7	389.9	382.9
5837.9	30°	4339.1	2565.1	667.9	510.5	458.0	419.7	388.5	367.3	357.3	354.5
6200.9	32.5°	4547.5	2576.5	682.1	496.3	424.0	385.7	355.9	340.3	330.4	330.4
6605.0	35°	4770.1	2573.7	703.3	509.1	401.3	351.7	329.0	319.0	309.1	309.1
7053.1	37.5°	5049.5	2577.9	720.3	530.3	392.8	323.3	310.5	297.8	292.1	292.1
7543.7	40°	5466.4	2718.3	711.8	548.8	389.9	303.5	277.9	273.7	269.4	269.4
8098.2	42.5°	5976.8	3023.2	723.2	550.2	388.5	289.3	255.2	263.7	253.8	252.4
8723.5	45°	6535.5	3356.4	795.5	520.4	387.1	282.2	243.9	253.8	238.2	238.2
9448.1	47.5°	7090.0	3686.8	869.2	477.9	382.9	280.8	234.0	228.3	224.0	225.5
10392.5	50°	7854.3	3956.2	897.6	419.7	372.9	277.9	215.5	217.0	214.1	217.0
11724.0	52.5°	8686.6	4012.9	863.6	354.5	344.6	269.4	202.8	208.4	207.0	209.9
12661.3	55°	9205.6	3951.9	713.2	294.9	300.6	235.4	190.0	201.4	201.4	201.4
13577.3	57.5°	9741.6	3692.5	506.2	239.6	249.6	192.8	178.7	194.3	192.8	191.4
14680.5	60°	10127.3	3272.7	333.2	197.1	198.5	158.8	165.9	182.9	181.5	174.4
15817.7	62.5°	10415.2	2809.0	214.1	167.3	151.7	143.2	151.7	165.9	160.2	144.6
16781.9	65°	10382.5	2166.7	164.5	143.2	124.8	124.8	131.9	144.6	127.6	102.1
16966.3	67.5°	9777.1	1466.2	136.1	120.5	104.9	103.5	109.2	120.5	109.2	86.5
16021.9	70°	8695.1	958.6	109.2	93.6	83.7	76.6	87.9	103.5	92.2	69.5
13639.7	72.5°	7057.3	584.2	82.2	68.1	61.0	49.6	69.5	85.1	73.7	51.0
9484.9	75°	4565.9	297.8	56.7	44.0	32.6	29.8	51.0	63.8	51.0	31.2
4208.6	77.5°	1747.0	124.8	31.2	19.9	17.0	14.2	28.4	38.3	21.3	7.1
815.3	80°	336.1	52.5	15.6	9.9	8.5	5.7	4.3	2.8	0.0	0.0
144.6	82.5°	58.1	17.0	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
28.4	85°	19.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.9	87.5°	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2633.2
1598.1
935.9
761.5
703.3
649.4
598.4
551.6
506.2
462.3
418.3
382.9
353.1
330.4
309.1
292.1
269.4
251.0
238.2
225.5
217.0
209.9
201.4
191.4
174.4
141.8
99.3
83.7
66.6
48.2
26.9
5.7
0.0
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0.0
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